



project
#2

Vermont Better Roads Grant Program Application

Please complete one application per category and/or project you are applying for. You may make copies of the application for multiple applications per category and/or multiple categories.

Please check the Category you are applying for:

- ☐ B. Correction of a Road Related Erosion Problem and/or Stormwater Mitigation Retrofit for both gravel and paved roads
- ☐ C. Correction of a Stream Bank or Slope Related Problem
- ☒ D. Structure/culvert upgrades

Town/Organization: Town of Franklin

Project Name: Morses Line Rd - culvert reset

Road Name: Morses Line Rd TH #: 1 Structure # (if applicable): _____

Road Type: Paved or Unpaved (circle one) Curbed or Uncurbed (circle one)

Class 1 Class 2 Class 3 Class 4 (circle one)

Watershed: Rock River Watershed

Please provide a thorough description of the problem (ex. Roadway has steep slope with no ditch which is causing roadway erosion):

The concrete culvert has come apart at end
causing road shoulder slumping & bank erosion
scouring of outlet.

Description of Project and how you plan to complete the work (ex. Stone line 500' of ditch by reshaping ditch and stone lining, working from the top of the project down to the bottom):

The culvert will be dug up from road shoulder
& reset with a base of 1 1/2" stone basin to
mitigate erosion & stabilize road from slumping.
Stone splash pool will be built as well.

Expected Effects (+ & -) on water quality (ex. Erosion will be eliminated by placing the stone ditch):

Erosion will be eliminated with proper culvert
outlet & stone lining ^{outlet} to contain phosphorus
flow.



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). Please circle one: 0-50' 50-250' 250'+

Progress to Date:

monitoring + listed as stormwater problem study
done in 2014

Is there an emergency reason this project must be completed quickly? If yes, please explain:

No

Has this project been identified through a municipal road inventory, capital budget plan, tactical basin plan, culvert inventory, or other management plan? If yes, please list which.

Yes: Stormwater problem study done No
in 2014 + culvert inventory
by NW Regional Planning

Please list any professionals you may have contacted for assistance with this project (ANR River Management Engineer, Army Corps of Engineers, VTTrans District Technical staff, Basin Planner etc.):

Chris Brunelle - ANR

Bethany Remmers - NW Regional Planning

Stone Environmental evaluation done

Franklin Watershed support

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further).

within R.O.W. of Town

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).

Yes the highway crew will complete the
project with rental of excavator



Describe how the grant funds will be spent and/or attach a project budget: _____

We will complete project as budgeted
on enclosed cost worksheet.

How do you plan to meet the required 20% match on this grant?:

Funds available in highway budget
for road work / maintenance

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): 2040.00

Estimated Total Project Cost (including 20% local match): 2550.00

Estimated Completion Date: Aug 2016

REQUIRED ATTACHMENTS:

- ☒ Itemized Cost Estimate (labor, equipment, materials)
(For assistance, call Better Backroads at 802-828-4585)
- ☒ Project Location Map
(Please show location of affected water; 1:12,000 USGS map, if possible)
- ☒ Sketch of proposed erosion control measures, including:
 - ☐ Distances (ft.)
 - ☐ Estimate of waste & borrow quantities
 - ☐ Approx. location of town/other right-of-way and/or property lines
- ☒ Photo(s) of the project area.
- ☒ Agreement for Entry and/or Deed of Easement (if project is outside Town ROW).
- ☒ If project involves stream or river/road conflict, include documentation of consultation with a River Management Engineer.
- ☒ Other appropriate supporting documents.

By signing this application I certify that all the information provided is accurate to the best of my knowledge. We will comply with all the requirements of the grant including making our books available for audit if required.

SIGNATURE OF APPLICANT: (Must be Town Administrator/Manager or Select Board Chair)

Name: Peter Magnanti

Title: 4.06.16

Cost Estimate Worksheet

Town and Road Name: Franklin - Morses Line Rd

Project Name: Morgan line Rd culvert

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Jim Smith

Nov.

Page 1 of 30

To: Denise Smith
Executive Director
Friends of Northern Lake Champlain
P.O. Box 58
Swanton, VT 05488

MEMO



STONE ENVIRONMENTAL INC

535 Stone Cutters Way
Montpelier, Vermont
05602 USA

Phone / 802.229.4541
Fax / 802.229.5417
Web Site / www.stone-env.com

From: Julie Moore
Direct Phone: 802-229-1881
E-Mail: jmoore@stone-env.com

SEI No. 14-053
Re: Stormwater Problem Area Data Sheets for the Town of Franklin

Stone Environmental has combed through existing reports and also worked directly with the Town of Franklin to identify current problem areas (e.g., actively eroding sites, roadway flooding and/or water ponding areas, culverts or other structures with insufficient hydraulic capacity) that are a direct, or indirect, result of stormwater runoff.

In addition to reviewing available reports, the approach to identifying problem areas included the following elements:

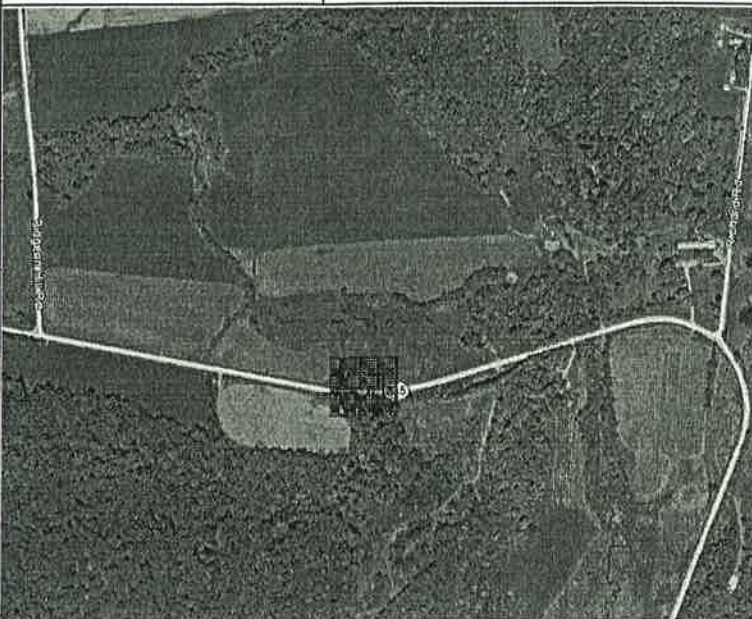
- Engagement with local officials, including:
 - March 24th, kick-off meeting with Town Clerk and Road Foreman
- Targeted site visits to verify problems areas (April and May, 2014)
- Documentation (with photos) of existing problem areas

A "problem area data sheet" was developed and used as a guide to ensure consistent information was collected as site visits were completed. The data sheets for all of the problem areas identified in Franklin are attached to this memo. Each problem area was given a preliminary classification according to the following system:

Level	Classification
1	Infeasible to remedy issue/outside of project scope.
2	Stable, but problem could escalate with future change in surrounding land use.
3	Small to moderate erosion and/or drainage problems are present; issues could be readily addressed.
4	Significant erosion and/or drainage problems are present; issues may be readily addressed.

Going forward, we will work with the Friends of Northern Lake Champlain to combine the information collected during this phase of the project in a scoring matrix that considers both the municipality's priorities and anticipated water quality benefits of addressing each problem area to develop a short of 6-10 high priority projects for implementation.

Problem Area Data Sheet

Problem Area ID: PK-07		Latitude: 44.996620°	Longitude: -72.925091°
Watershed: Pike River			
Location: Morses Line Rd., 400 ft west of Richard Rd.			
Problem Type: Infrastructure			
Identification Source: SWMP Assessment			
Ownership: Local			
Classification: 3			

Date of Field Data Collection: 5-22-2014

Description of Observed Conditions:

Downstream end of culvert is broken and failing. Significant bank erosion, including some slumping of the road shoulder, evident. Direct animal access to the stream in this location likely exacerbating all noted impacts.

Field Photos



Photo 1. Culvert outlet



Photo 2. Culvert outlet with evidence of animal access

Prioritization Ranking Factors

Relative Impact	Frequency	Current Condition	Urgency	Impact to public infrastructure?	Realistic to fix?	Impacts beyond water resources?	Part of a larger or systemic problem?
2	2	3	2	Y	Y	Y	N

Franklin, VT SWMP



Franklin Watershed Committee, Inc.

Caring for Lake Carmi since 1994

P.O. Box 82

Franklin, VT 05457

April 6, 2016

Re: Town of Franklin, FY17 Better Roads Grant

Dear Grant Review Committee:

I am pleased to provide my support for this project to the Town of Franklin. The Franklin Watershed Committee (FWC) is a duly incorporated, IRC 501(c)(3) tax exempt, non-profit organization whose goal is to improve the healthful integrity of the Franklin Watershed and its principle body of water, Lake Carmi. The FWC strives to achieve its mission by working closely with the town, lake residents and farmers to limit the impact of agricultural activity, storm water issues, shoreline and road erosion, and septic leachate on the phosphorous levels in Lake Carmi, and throughout the Town of Franklin.

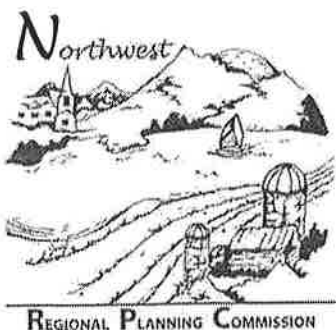
This grant, if so approved, will allow the town to mitigate road erosion concerns in Franklin. The Town and FWC, are taking the storm water assessment and using it to the best of their ability to address the many issues outlined within.

The Franklin Watershed Committee hopes you will consider funding this initiative. We pledge to work with the town of Franklin on continued water quality improvement within the community.

Sincerely,

Jessica E. Draper

Jessica Draper
Coordinator, Franklin Watershed Committee



75 Fairfield Street • St. Albans, VT 05478 • (802) 524-5958 • Fax (802) 527-2948

April 11, 2016

Vermont Better Roads Grant Committee
Agency of Transportation
1 National Life Drive
Montpelier, VT 05633

Dear Vermont Better Roads Grant Committee,

The Northwest Regional Planning Commission (NRPC) is pleased to support the Town of Franklin's application to the Better Roads grant program. It is my understanding the Town is seeking funding to upgrade a culvert on Webster Road and stone-line a portion of Morse's Line Road. The NRPC completed a culvert inventory for Franklin in 2014 and we are pleased the Town is seeking funds to address this high priority culvert. Both the culvert and ditch stabilization projects will have positive water quality benefits and will help to improve the resiliency of these roadways.

Please contact me if you have any questions.

Sincerely,

Bethany Remmers
Assistant Director